LAND APPLICATION OF BIOSOLIDS FRED MASSIE

LO07 (FIELDS 1 - 5, 7 - 9, 11, 19 - 22) LOUISA COUNTY, VIRGINIA JULY 2011





June 1, 2012

Mr. Ed Stuart Dept of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193

Dear Mr. Stuart:

Transmitted herein for your consideration is land application site for Fred Massie (designated as LO 07, fields 1-5, 7-9, 11, 19-22), located in Louisa County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Kelly)M. Love

Technical Services Director

KML/cmw

FIELD SUMMARY SHEET

Fred Massie

LO07

| SYNAGRO FIELD # | | NET ACRES | FSA TRACT # | FSA FIELD # | TOPO QUAD | OWNER |
|-----------------------|-------|--------------|-------------------|-------------------|--------------|--------------------------|
| 07-01 | 38.9 | 34.3 | | | Louisa | Massie, Susan Ann Estate |
| 07-02 | 13.1 | 13.0 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-03 | 36.7 | 28.4 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-04 | 31.8 | 31.8 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-05 | 33.0 | 30.0 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-07 | 17.4 | 14.0 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-08 | 12.7 | 10.4 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-09 | 16.2 | 16.2 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-11 | 68.1 | 68.1 | | | Louisa | Massie, Susan Ann ET ALS |
| 07-19 | 7.6 | 7.6 | | | Mineral | Massie, Fred ET ALS |
| 07-20 | 21.6 | 21.5 | | | Mineral | Massie, Fred ET ALS |
| 07-21 | 24.4 | 24.3 | | | Mineral | Massie, Fred ET ALS |
| 07-22 | 27.0 | 23.2 | | | Buckner | Massic, Fred ET ALS |
| TOTALS: | 348.5 | 322.8 | | | | |

Appendix I

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

| A. This biosolids/industri- | al residuals land applicat referred to Permittee". This agreemonarcels changes. If owner ownership has changed v | ion agreement is made on here as "Landowner", and ent remains in effect until it in the properties in the control of individual parcels in the control of indiv | 6 27 12 Surveyed Is terminated in writing by dentified in this agreemen | nt changes, |
|--|---|--|---|--|
| Landowner: | r of real property known | as LO - 7 lifled below in Table 1 and i | located in dentified on the tax map | Louisa (s) attached |
| Table 1.: Parcels au | uthorized to receive blosc | olids, water treatment residu | ials or other industrial slu | idges |
| Sec Tax | Tax Parcel ID Id., Im. | ap and Shee | 1 . 1 . 1 | Beak |
| 14-35 | | | - 40 | |
| have no other agreement f conditions change such the agreement becomes invalidation to hereby grant permission to | s for land application on hat the fields are no long d. o the Permittee to land a | the fields identified herein. Her available to the permitte pply residuals as specified issign for DEQ staff to cond | below, on the agricultura luct inspections on my lai | l sites |
| above, before, during or aft Class B biosolids Water | ter land application of pel er treatment residuals | Food processing waste | pose of determining con | phance. |
| PAPO COM | | Anuse- | 47 L4 ELLIS | VILLE DE |
| Landowner - Printed Name | Signature | | Mailing Address | The state of the s |
| land in the manner authors the nutrient management (§10.1-104.2 of the Code of land application has communications at the site, a revi | ized by the VPA Permit F plan prepared for each la f Virginia. Permittee will nenced. If the plan require sed plan will be provided | o apply biosolids and/or Ind Regulation and in amounts a and application field by a per provide a copy of the NMP es modification to reflect the within 2 weeks of the mod designee of the proposed a | ustrial residuels on the fa not to exceed the rates id rson certified in accordar to the landowner within to actual application rates ification. | endowner's lentified in nce with 30 days after or farming |
| | randowner or randowner | designed of the proposed t | include the source of ret | TOTAL MITTO |

VIRGINIA POLLUTION ABATEMENT APPLICATION

Page 2 of 2

| Permittee: | Synagro |
|------------|---------|
| | IT # |

Permit # or County: Louisa

Landowner: FRED 15145516

Farm name or address: 4724 ELLISVILCE DE

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
 as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application
 at that site was completed.
- 2. Public Access

 Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

Public access to land with a low potential for public exposure shall be restricted for at least 30 days
following any application of biosolids. No biosolids amended soil shall be excavated or removed from
the site during this same period of time unless adequate provisions are made to prevent public
exposure to soil, dusts or aerosols;

c. Turf grown on land where bipsolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority

3. Crop Restrictions:

 Food crops with harvested parts that touch the biosolids/soll mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.

Food crops with harvested parts below the surface of the land shall not be harvested for 20 months
after the application of biosolids when the biosolids remain on the land surface for a time period of
four (4) or more months prior to incorporation into the soil.

c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the blosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

 Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lacteting dairy).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- Meat producing livestock shall not be grazed for 30 days,
- Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuels applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

27504 20/2

Date

VIRGINIA POLLUTION ABATEMENT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

| residuals under this agreem | | | |
|--|--|---|--|
| am the registered owner o | f real property known as | , Virginia, which inclu | des the agricultural sites identified |
| and the second s | fied on the tax map(s) attache | ed as Exhibit A. | |
| Table 1.: Parcels auth | orized to receive biosolids, w | ater treatment residual | s or other industrial sludges |
| Tax Parcel ID | Tax Parcel ID | Tax Parcel ID | Tax Parcel ID |
| 13-67 | | | |
| 25-39 | | | |
| With the set of the state of th | d Application Sites are identified on | Sunnlement & Johank It and | cable) |
| | m the sole owner of the prope | | caute) |
| □ la | m one of multiple owners of t | he properties identified | herein. |
| have no other agreements if conditions change such the | hat the fields are no longer as | elds identified herein. I | will notify the permittee immediately for application or any part of this |
| A STATE OF THE STA | | | |
| I hereby grant permission to identified above and in Exh | o the Permittee to land apply | n for DEQ staff to cond ed residuals for the pur | nelow, on the agricultural sites uct inspections on my land identified pose of determining compliance, trial sludges (check all that apply) |
| identified above and in Exh above, before, during or aft Class B biosolids | o the Permittee to land apply libit A. I also grant permission ter land application of permitte | n for DEQ staff to cond ed residuals for the pur | uct inspections on my land identified pose of determining compliance, trial sludges (check all that apply) |
| I hereby grant permission to identified above and in Exh above, before, during or aft Class B biosolids | o the Permittee to land apply libit A. I also grant permission ter land application of permitte | n for DEQ staff to cond ed residuals for the pur | uct inspections on my land identified pose of determining compliance. |
| I hereby grant permission to identified above and in Exhabove, before, during or aft Class B biosolids FOED MASCLE Landowner - Printed Name Permittee: | o the Permittee to land apply slibit A. I also grant permission ter land application of permitted. Water treatment residual Signature | n for DEO staff to cond ed residuals for the pur als Dother indus | uct inspections on my land identified pose of determining compliance, trial sludges (check all that apply) 4744 Flumille Dr Lower Mailing Address |
| hereby grant permission to identified above and in Exhabove, before, during or aft Class B biosolids FOCO MASSIC Landowner - Printed Name Permittee: Support land in the manner authorize the nutrient management p §10.1-104.2 of the Code of land application has committed. | o the Permittee to land apply libit A. I also grant permission ter land application of permitter land application of permitter land application of permitter land application of permittee. Signature I the permittee, agrees to applicate the permittee, agrees to applicate the permittee will provide the permittee the permittee will provide the permittee the | n for DEO staff to cond ed residuals for the purals Other indus ily biosolids and/or industion and in amounts no polication field by a per ide a copy of the NMP odification to reflect the | uct inspections on my land identified pose of determining compliance, trial sludges (check all that apply) 4744 Flush Dr Lows Mailing Address strial residuals on the landowner's of to exceed the rates identified in son certified in accordance with o the landowner within 30 days after actual application rates or farming |

| Permittee: _ | Synagro | Permit # or County: | Louisa | |
|--------------|------------------------|-------------------------|--------|--|
| Landowner: | susan Ann Massie ETALS | Farm name or address: _ | 60-07 | |

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 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Draf makine

275 on 2012

Landowner's Signature

Date







Scale: 1:18055.954822

Date: 05/03/2012

Printed By:

a County assumes no liability for any errors, omissions, or inaccuracies in the information provided regardless of the cause of such or for any decision made, action taken, or action not taken by the user in reliance upon any maps or data provided herein. Please consult official County plats and records for official information.







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Tax ID Landowner Identification Sheet

| Landowner | Field # | Tax ID |
|--------------------------|---------|--------------------|
| MASSIE, SUSAN ANN ESTATE | 07-01 | 13 - 67 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-02 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-03 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-04 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-05 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-07 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-08 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-09 | 25 - 39 |
| MASSIE, SUSAN ANN ET ALS | 07-11 | 25 - 39 |
| MASSIE, FRED ET ALS | 07-19 | 14 - 33, 35 |
| MASSIE, FRED ET ALS | 07-20 | 14 - 35 |
| MASSIE, FRED ET ALS | 07-21 | 14 - 35 |
| MASSIE, FRED ET ALS | 07-22 | 14 - 35 |

| Field # | Latitude (north) | Longitude (west) |
|---------|------------------|------------------|
| 07-01 | 38° 05' 04.26" | 780 01' 28.61" |
| 07-02 | 38° 05' 14.73" | 78° 01° 22.20° |
| 07-03 | 38° 04' 55.10" | 78° 01' 15.31" |
| 07-04 | 38° 04' 47.88" | 78° 01' 03.48" |
| 07-05 | 38° 04' 39.83" | 78° 01' 20.48" |
| 07-07 | 38° 04' 52.51" | 78° 01' 33.75" |
| 07-08 | 38° 04' 46.25" | 78° 01' 35.89" |
| 07-09 | 38° 04' 34.05" | 78° 01' 26.00" |
| 07-11 | 38° 04' 38.45" | 78° 01' 35.15" |
| 07-19 | 38° 05' 41,02" | 77 ° 59' 48,79" |
| 07-20 | 38° 05° 24.14" | 770 59' 36.45" |
| 07-21 | 38° 05' 15.95" | 770 59' 36.97" |
| 07-22 | 38° 05' 15.45" | 770 59' 54.11" |

Haul Route:

The location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences; to include but not limited to all federal, state, and local granted STAA access routes.

| Field | the second second second second second | | Percentage | Soil Series | High Water | Flood | Environmental Sensitive |
|-------|--|------|------------|-------------|------------|-------|--|
| 07-01 | AsC | 13.0 | 37 | Ashlar | | | Leaching |
| 07-01 | GrB2 | 11.4 | 32 | | | | |
| 07-01 | GvC3 | 9.4 | 27 | | | | |
| 07-01 | CO | 1.4 | 4 | | | | |
| 07-02 | GrB2 | 11.2 | 86 | | | | |
| 07-02 | GrC2 | 1.8 | 14 | | | | |
| 07-03 | co | 9.7 | 36 | | | | |
| 07-03 | GvC3 | 9.2 | 34 | | | | |
| 07-03 | GrC2 | 4.8 | 17 | | | | |
| 07-03 | GrB2 | 3.5 | 13 | | | | |
| 07-00 | GIUL | 0.0 | 10 | | | | |
| 07-04 | GrB2 | 13.1 | 41 | | | | |
| 07-04 | MaB2 | 8.4 | 26 | | | | |
| 07-04 | GrC2 | 4.2 | 14 | 2712720 | | | The second of th |
| 07-04 | AsC | 4.1 | 13 | Ashlar | | | Leaching |
| 07-04 | SP | 2.0 | 6 | Sekil | | | Leaching |
| 07-05 | AsC3 | 8.9 | 28 | Ashlar | | | Leaching |
| 07-05 | GrC2 | 5.9 | 18 | | | | |
| 07-05 | GrB2 | 5.3 | 17 | | | | |
| 07-05 | CO | 5.1 | 16 | | | | |
| 07-05 | SP | 3.5 | 11 | Sekil | | | Leaching |
| 07-05 | GvC3 | 3.1 | 10 | | | | |
| 07-07 | co | 6.3 | 46 | | | | |
| 07-07 | GrC2 | 5.6 | 40 | | | | |
| 07-07 | GrB2 | 2.0 | 14 | | | | |
| 01-01 | OIDE | 2.0 | 10.00 | | | | |
| 07-08 | AsC | 3.4 | 47 | Ashlar | | | Leaching |
| 07-08 | CO | 3.3 | 47 | | | | |
| 07-08 | GrB2 | 0.4 | 6 | | | | |
| 07-09 | GrC2 | 6.2 | 75 | | | | |
| 07-09 | | 2.1 | 25 | | | | |
| 07-10 | GrC2 | 5.4 | 67 | | | | |
| 07-10 | | 1.3 | 16 | Worsham | Nov - May | | |
| 07-10 | | 0.9 | 11 | TTOTOTION | 110V-IVIOY | | |
| 07-10 | | 0.5 | 6 | | | | |
| 41-10 | OTIVE. | 0,0 | <u> </u> | | | | |
| 07-11 | CO | 2.1 | 37 | 100 | KI-MA NAME | | |
| 07-11 | WoB | 2.0 | 35 | Worsham | Nov - May | | The second secon |
| 07-11 | AsB | 1.1 | 19 | Ashlar | | | Leaching |
| 07-11 | GrC2 | 0.5 | 9 | | | | |
| 07-12 | GrC2 | 10.9 | 81 | | | | |
| | | | | | | | |
| 07-12 | GrB2 | 2.0 | 15 | | | | |

| Field | Contract to the second second | | Percentage | Soil Series | High Water Flood | Environmental Sensitive |
|--------|-------------------------------|-----|------------|-----------------|---------------------|--------------------------------|
| 07-13 | GrC2 | 9.8 | 85 | | | |
| 07-13 | GrB2 | 1.3 | 11 | William William | | t analities |
| 07-13 | AsB | 0.5 | 4 | Ashlar | | Leadhing (4) |
| 07-14 | GrC2 | 4.9 | 55 | | | |
| 07-14 | TaB2 | 3.0 | 34 | | | |
| 07-14 | GrB2 | 0.5 | 6 | | | |
| 07-14 | TaC2 | 0.4 | 5 | | | |
| 07-15 | GrC2 | 3.5 | 37 | | | |
| 07-15 | TaB2 | 3.4 | 36 | | | |
| 07-15 | TaC2 | 2.6 | 27 | | | |
| 07-16 | TaB2 | 6.2 | 52 | | | |
| 07-16 | TaC2 | 4.2 | 35 | | | |
| 07-16 | GrC2 | 1.5 | 13 | | | |
| 07-17A | TaB2 | 2.2 | 71 | | | |
| 07-17A | TaC2 | 0.9 | 29 | | | |
| 07-17B | TaB2 | 0.9 | 53 | | | |
| 07-178 | TaC2 | 0.8 | 47 | | | |
| 07-170 | Iduz | 0.0 | 72.50 | | | |
| 07-19 | AsC | 3.2 | 42 | Ashlar | | Leaching |
| 07-19 | GrC2 | 1.7 | 22 | | | |
| 07-19 | GvB3 | 1.4 | 18 | | | |
| 07-19 | CIB | 0.9 | 12 | Colfax | Nov - June | |
| 07-19 | GrB2 | 0.5 | 6 | | | |
| 07-20 | GrB2 | 7,3 | 35 | | | |
| 07-20 | GrC2 | 7.0 | 33 | | | |
| 07-20 | AIB | 2.6 | 12 | | | |
| 07-20 | AbB | 2.2 | 10 | | | |
| 07-20 | AsC3 | 2.1 | 10 | Ashlar | | Leaching |
| 07-21 | AbB | 6.8 | 29 | | | |
| 07-21 | AnB2 | 5.1 | 22 | | | |
| 07-21 | GrC2 | 5.2 | 22 | | | |
| 07-21 | GvC3 | 3.7 | 16 | | | |
| | | | | | | |
| 07-21 | GrB2 | 2.7 | 11 | | | |
| 07-22 | AsC3 | 8.0 | 35 | Ashlar | | Leaching |
| 07-22 | GrC2 | 5.4 | 23 | | | |
| 07-22 | GvB3 | 4.6 | 20 | | | |
| 07-22 | WH | 4.2 | 18 | Wehad - Chew | Nov - May Nov - Jun | |
| 07-22 | AsC | 1.0 | 4 | Ashlar | | Leaching |

Environmentally Sensitive Areas

| Field | Reason for Sensitive Area |
|-------|---|
| 7-01 | Leaching Potential (Map Unit AsC - 37%) |
| 7-02 | None |
| 7-03 | None |
| 7-04 | Leaching Potential (Map Unit AsC, SP - 19%) |
| 7-05 | Leaching Potential (Map Unit AsC3, SP - 39%) |
| 7-07 | None |
| 7-08 | Leaching Potential (Map Unit AsC - 47%) |
| 7-09 | None |
| 7-19 | High Water Table (Map Unit CIB - 12%) Leaching Potential (Map Unit AsC - 42%) |
| 7-20 | Leaching Potential (Map Unit AsC3 - 10%) |
| 7-21 | None |
| 7-22 | High Water Table (Map Unit WH – 18%) Flooded Soils (Map Unit WH – 18%) Leaching Potential (Map Units AsC, AsC3 – 39%) |

Louisa County Soils that are Environmentally Sensitive

| Soil Map Unit | Series Name | Time o | fyear | Environmental |
|-----------------------|-------------------|-------------|-------------|---------------|
| TO THE REAL PROPERTY. | Service Control | High Water | Flooded | |
| AsB, AsC, AsD | Ashlar | | | Leaching |
| AsC3, AsD3 | Ashlar | | | Leaching |
| AV | Ashlar | | | Leaching |
| Ch | Chewacia | Nov - April | Nov April | |
| CIB | Colfax | Nov - June | | |
| Eb | Elbert | Nov - May | | |
| FN | Fluvaquents | Nov - April | Nov - April | |
| Fo | Forestdale | Jan - April | Jan - April | |
| FrB | Fork | Oct - May | Oct - May | |
| IdB | Iredell | Dec April | | |
| IdB2, IdC2 | Iredell | Dec - April | | |
| IrA, IrB | Iredell | Dec - April | | |
| Iv | Iredell | Dec - April | | |
| LgB | Lignum | Dec - May | | |
| MnB, MnC, MnD | Madison | | | Shallow |
| MoC, MoD | Madison | | | Shallow |
| SeB, SeC, SeD | Sekil | | | Leaching |
| SeC3 | Sekil | | | Leaching |
| SP | Sekil | | | Leaching |
| To | Tocca | | Jan - Dec | |
| Ts | Tocca | | Jan - Dec | |
| We | Wehadkee | Nov - May | Nov - June | |
| WH | Wehadkee-Chewacla | Nov - May | Nov - June | |
| WoB | Worsham | Nov - May | | |
| | | | | |

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



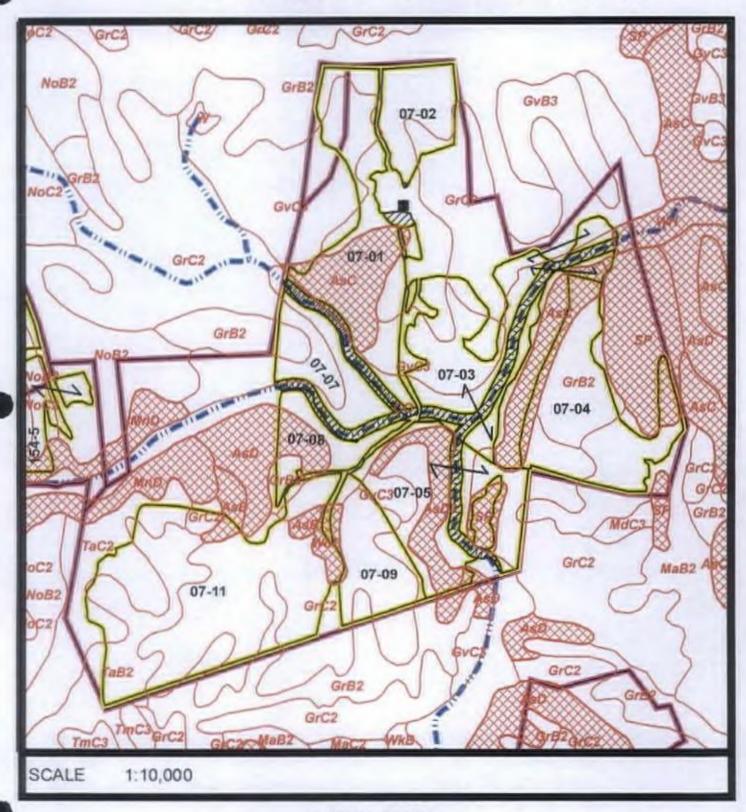
Property Line - (Standard 100'

Buffer, unless waiver issued)

Revised, Jan 13, '14



Fred Massie LO07 Fields 1 – 5, 7 – 9, 11

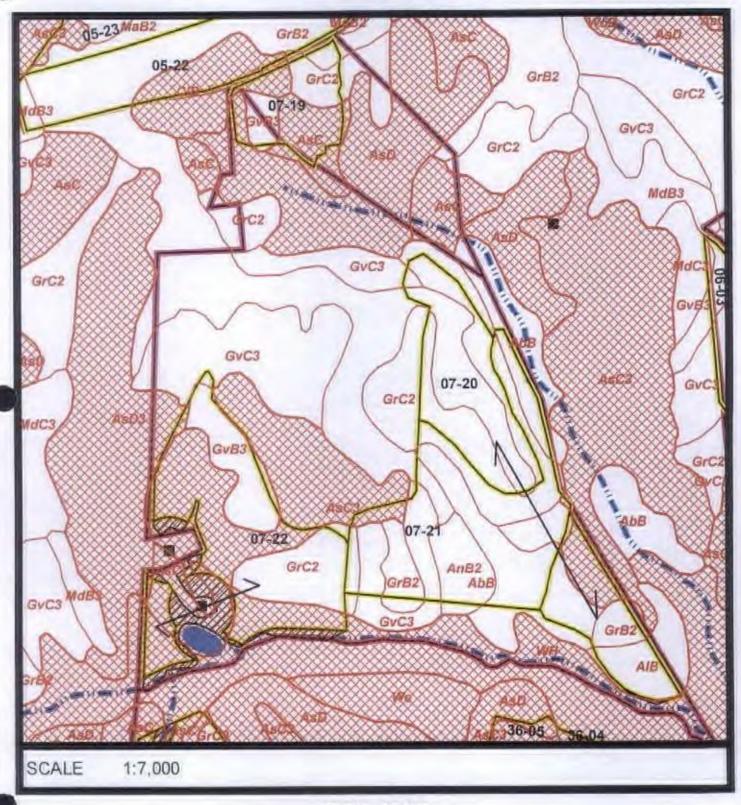


SOIL MAP



Environmentally Sensitive Soil

Fred Massie LO07 Fields 19-22

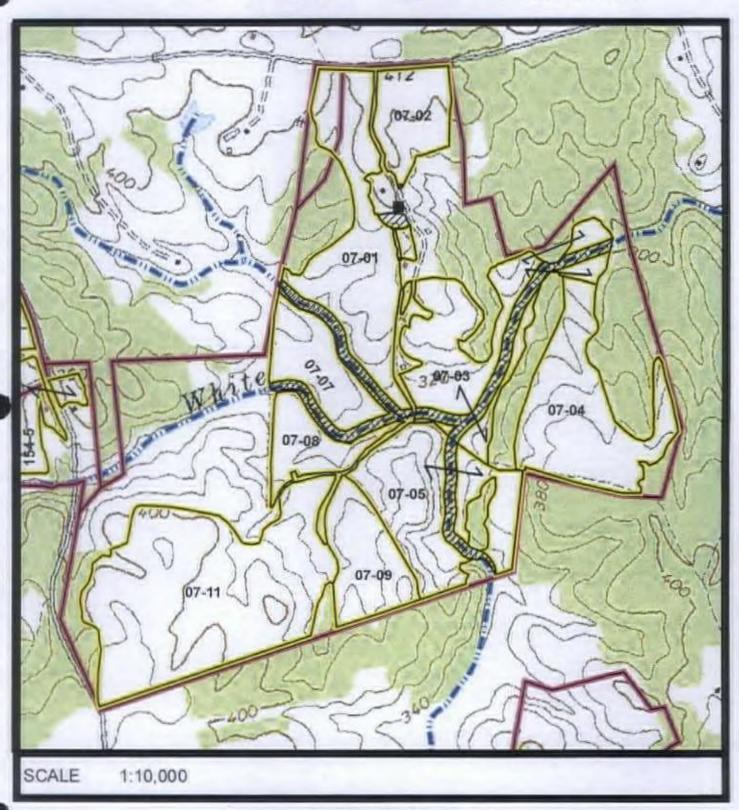


SOIL MAP

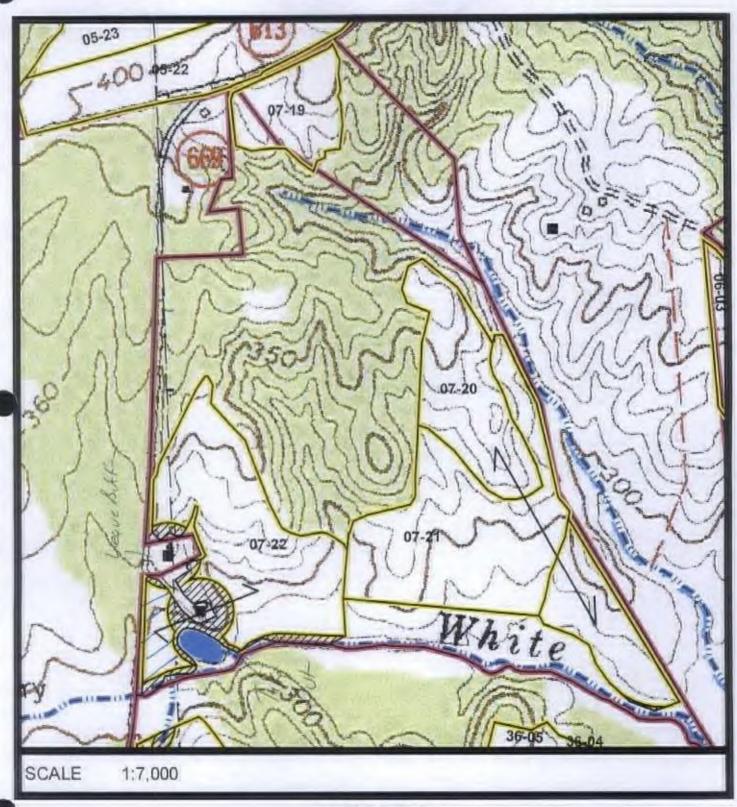


Environmentally Sensitive Soil

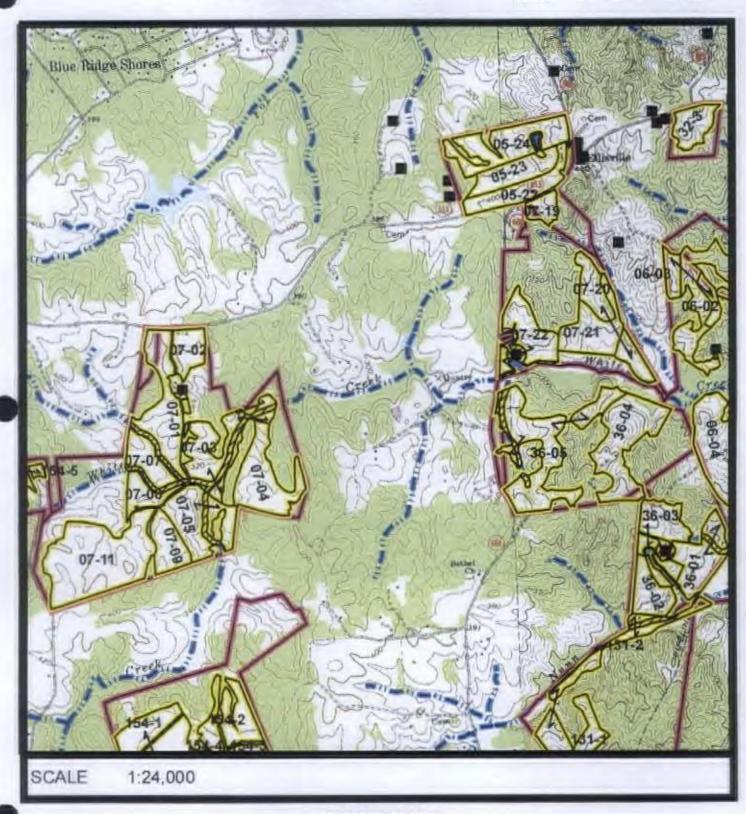
Fred Massie LO07 Fields 1 – 5, 7 – 9, 11



Fred Massie LO07 Fields 19 – 22



Fred Massie LO07 Fields 1 - 5, 7 - 9, 11, 19 - 22



Fred Massie LO07 Fields 1 - 5, 7 - 9, 11, 19 - 22



LOCATION MAP

